ARA1200

THE ARA™ RANGE
fits from 1.5 m beds to 12 m
Learn more at ecorobotix.com

ecorobotix

AI-Powered UHP Sprayer

Equipped with Plant-by-Plant AI™, ARA1200 Ultra-High Precision Sprayer applies crop protection products only where needed. It's the only smart sprayer that safely uses non-selective herbicides, reducing input and labor costs while boosting yield.



Product Flexibility

Plant-by-Plant AI™ offers the ability to apply non-selective herbicides with an adjustable safety zone.

Increased Yields

By leaving the crops untouched, our technology helps achieve healthier and more abundant crops.

Boost your Bottom Line

Reduce crop protection use by up to 95% and save on manual labor costs.

Fast ROI on your Investment

See returns in just 2 to 4 years, depending on farm size.

A Revolution in Precision Farming

With a working width of 12.00 meters and a driving speed of up to 7.2 km/h, ARA1200, the Ultra-High Precision Sprayer can cover up to 8 hectares per hour.



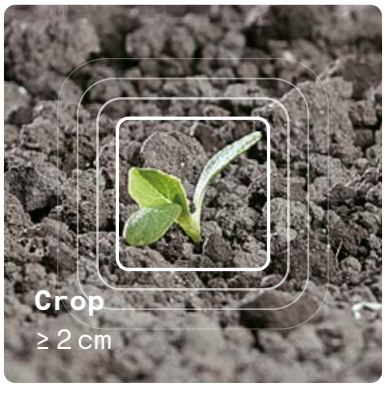
Increased Spraying Efficiency

ARA™ achieves a 6 × 6 cm spot spray. This precision allows you to come closer to the crop and hit more weeds, even between the crops, without harming them.



Minimal Recognition Size

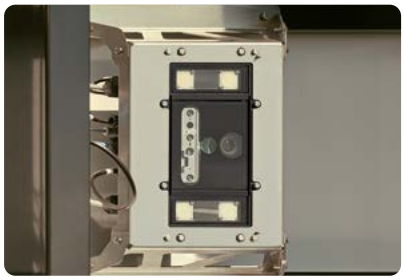






Plant-by-Plant AI™ Technology

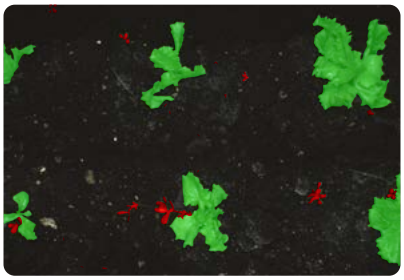
① Sense



3D and RGB cameras

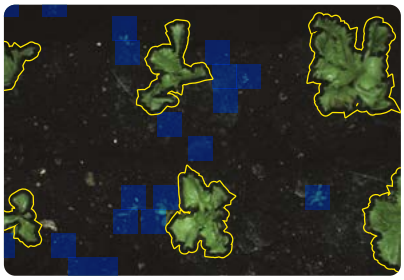
Plant-by-Plant AI™ combines AI and 12 advanced camera modules, with 3D and RGB cameras ensuring a uniform image for instant data analysis.

② Decide



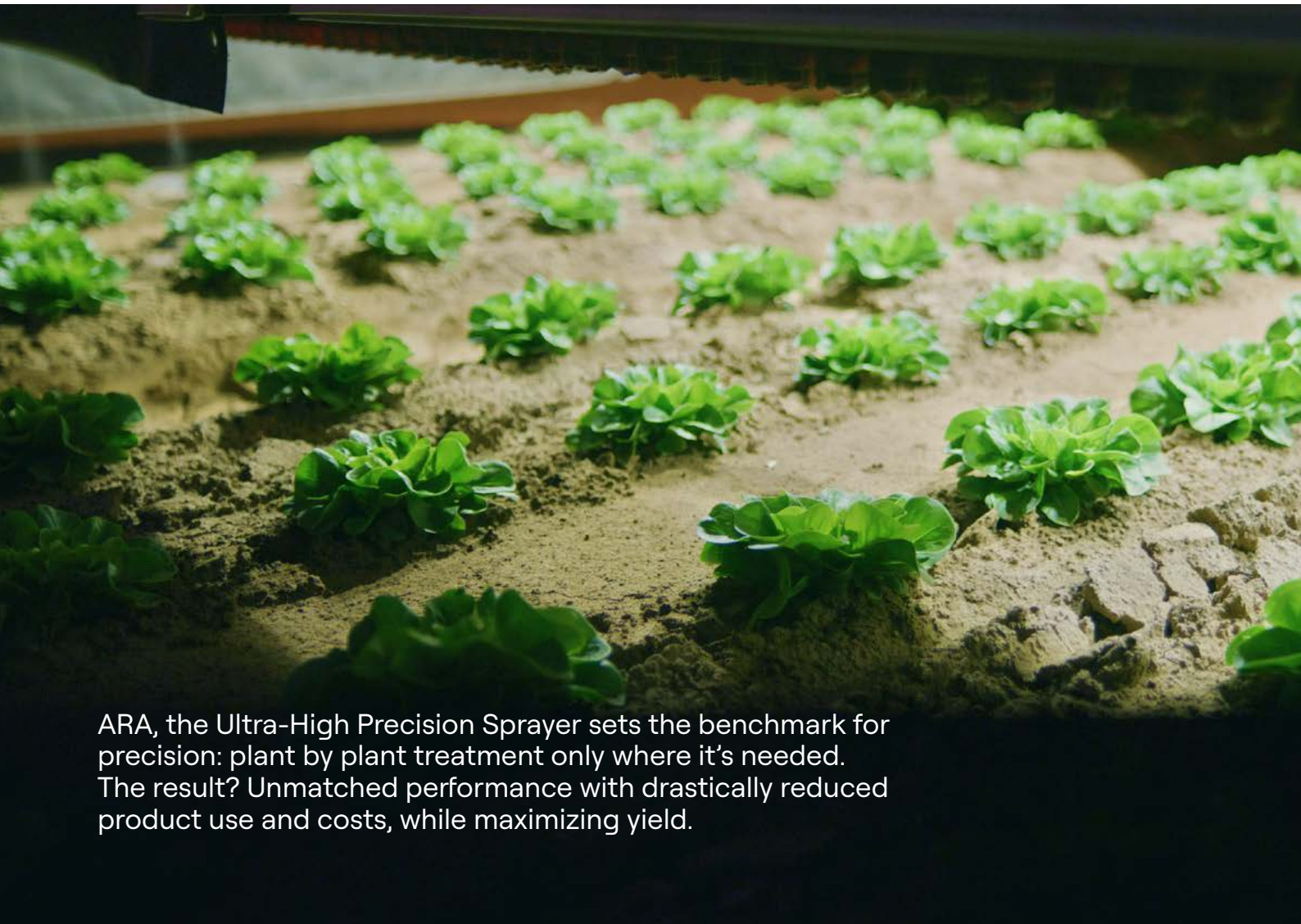
Plant-by-Plant AI™ analyzes every pixel to distinguish crops from weeds with accuracy, ensuring each spray targets only what's necessary.

③ Act



Crop Target weed Treated area Safety Zone

With protective zones, Plant-by-Plant AI™ enables safe use of non-selective products, maximizing weed control, minimizing crop stress, and boosting yield.



ARA, the Ultra-High Precision Sprayer sets the benchmark for precision: plant by plant treatment only where it's needed. The result? Unmatched performance with drastically reduced product use and costs, while maximizing yield.

Plant Detection Models

Precise spraying of herbicides, fungicides, insecticides, biostimulants, and liquid fertilizers in row crops, vegetables, grasslands, and turf, for monocots and dicots.

Specialty Crops

Avg. Input Savings 75%

- Onion
- Carrot
- Lettuce THINNING
- Broccoli THINNING
- Cauliflower THINNING
- Var. Cabbages THINNING
- String Beans
- Spinach
- Chicory
- Leek
- Garlic
- Red Beet
- Celery/Celeriac

Upcoming...

- Pepper
- Zucchini
- Pumpkin
- Watermelon
- Cantaloupe
- Cucumber
- Processing Tomato
- Parsley
- Swiss Chard
- Escarole
- Radish
- Sweetcorn

Target Weeds

Avg. Input Savings 82%

- Volunteer Potato
- Monocot/Dicot Weeding

Upcoming...

- Nutsedge

Pasture

Avg. Input Savings 96%

- Dock
- Thistle
- Ragwort

Upcoming...

- Dock & Thistle

Other Application Modes

- All Plants
- Target Size
- Turf

Upcoming...

- Lines Detection

Grass Seed

Upcoming...

- Tall Fescue
- Kentucky Bluegrass
- Engl. Raygrass

Broadacre Crops

Avg. Input Savings 75%

- Potato
- Sugar Beet
- Rapeseed (Canola)
- Corn

Upcoming...

- Cotton
- Wheat (Dicot)
- Soy

Our upcoming models are in the final stages of development and available for free trial during this period.

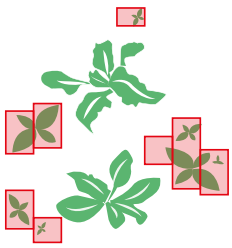
Crop Care Procedures



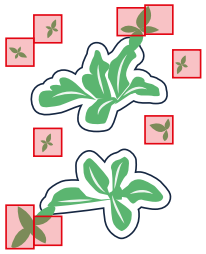
Angus HILL
Agronomist and Farm Support Consultant

We have done over 1750 ha of onions with ARA with savings up to 96% on raw chemical input. Due to reduced phytotoxic crop impact, we would expect yield benefits of at least 10-15%.

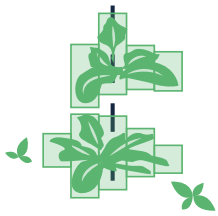
Crop-Specific Modes



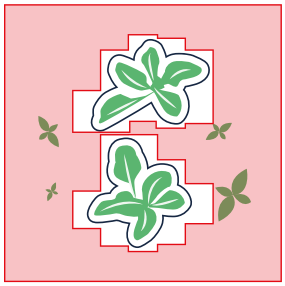
Application of selective herbicides **on weeds even close to crops.**



Application of non-selective herbicides **with an adjustable safety zone.**



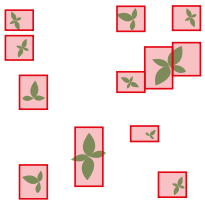
Application of fungicides, insecticides, fertilizers and biostimulants **on the crop only.**



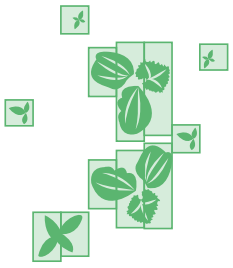
Spray all but crop **with an adjustable safety zone.**

Universal Functions (Non Crop Specific)

Function All-Plants

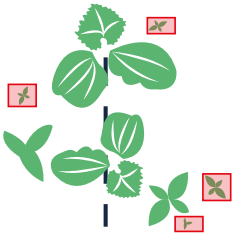


For preplanting: herbicide application.

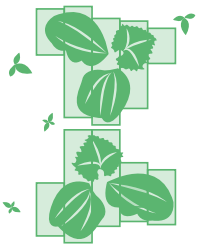


Application of fungicides, insecticides, fertilizers and biostimulants **on all-plants.**

All-Plants Combined with Target Size



Size-based **herbicide** application.



Size-based application **of fungicides, insecticides, fertilizers and biostimulants.**

Thinning Model

Application to remove excess plants and ensure ideal spacing and density.

Thinning under normal conditions



Thinning with multiple plant management (removing overlapping plants)



Engineered for Versatility, Built for Reliability

Day or night, ARA1200 keeps your beds spotless, tackling weeds with a 12.00 meters working width.

A close to ground-level application and protective covers reduce spray drift, making ARA usable even in moderate winds within legal limits of your region.



DENNIS GROSSHANS

Vegetable Grower, Gemüsebau Grosshans

With ARA, we've been able to skip one or two broadcast herbicide applications and treat weeds precisely instead, reducing crop stress and improving field uniformity.



Just Plug-in and Go!

ARA, the Ultra-High Precision Sprayer attaches to your tractor and is controlled in a few clicks via tablet. Select the crop and treatment, and ARA adjusts all settings automatically for speed and turns, with dose control ensuring stable spray concentration.

All-in-One Cloud Platform

Take full control of your crop management with our cloud platform for UHP Technology. Real-time data, maps, planning, and fast support, all in one place.



Simulated product for illustration purposes. Final product may vary.

As-Applied Maps with RTK GPS Technology

Higher positioning accuracy for detailed as-applied maps. Ideal for providing full traceability for regulatory compliance, subsidy applications and precise invoicing data for contractors.

Technical Data

Working Width	Adjustable up to 12.00 m
Tractor Requirements	
Minimum PTO Power (kW/hp)	3/4
PTO Speed (rpm)/Type	540/6 spline shaft
Rear Linkage	Cat. III N
Load Sensing Remote Hydraulics	Power Beyond (pressure, return, LS)
Tractor Power Class	160 hp
Boom	288 nozzles
Working Dimensions (L × W × H)	3.75 × 12.40 × 1.50 m
Transport Dimensions (L × W × H)	3.55 × 2.45 × 3.50 m
Adjustable Gauge Wheel Track	1.50 – 2.25 m
OPTION **Wheel Extension Kit**	Up to 3 m
Weight	2,300 kg

Front Tank

	UPCOMING 2028	UPCOMING 2028	UPCOMING 2027
Tank System	TS**900**	TS**1200**	TS**1500**
Tractor Setup			
Min. Front Hydraulic Flow	30 l/min	30 l/min	30 l/min
Front Linkage	Cat. II	Cat. II	Cat. II
Capacity	900 l	1,200 l	1,500 l
Clean Water Capacity	400 l	400 l	400 l
Mixture Capacity	500 l	800 l	1,100 l
Induction Hopper	15 l	15 l	15 l
Dimensions (L × W × H)	1.55 × 1.80 × 1.40 m	1.63 × 1.80 × 1.40 m	1.70 × 2.20 × 1.44 m
Weight (Empty)	560 kg	720 kg	750 kg

Specifications for information purposes only, subject to change without prior notice.

New Tank Systems

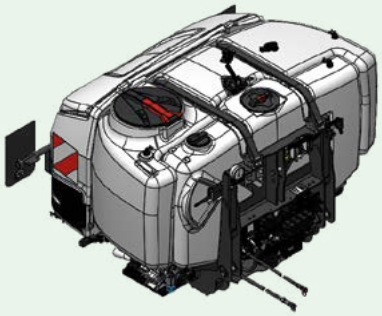
Spray with fewer stops thanks to a tank built for real field conditions.
Rinsing is quick and automatic, while smarter handling keeps operators safe.

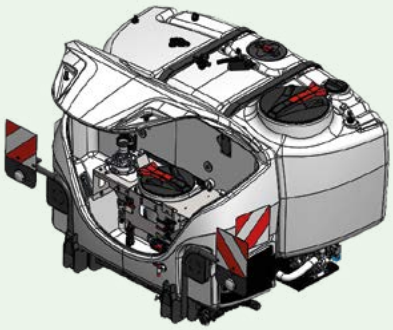
Greater Autonomy. Higher Productivity.
Up to 3 hours of spraying autonomy reduce refill stops and maximise productivity.

Fast Filling. Safe Handling.
An integrated induction hopper speeds up mixing and reduces operator exposure, with optional CTS for added safety and compliance.

Automated Cleaning. Reliable Performance.
Tablet-controlled continuous rinsing ensures fast, consistent cleaning, reducing residues and clogging risks.

Smart Water Management.
Fill from an external water source and automatically transfer the exact amount needed, simplifying logistics and reducing transport trips.





Three Tank Sizes to Match Your Needs

The new tank will be available in three capacities to match your autonomy requirements. All versions include 400 l of water (200 l for rinse water and 200 l for further in field preparation), while the spray mixture capacity adapts to the needs of your farm.

TS900
900 liters
500 l mixture + 400 l water
UPCOMING 2028

TS1200
1200 liters
800 l mixture + 400 l water
UPCOMING 2028

TS1500
1500 liters
1100 l mixture + 400 l water
UPCOMING 2027

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